

Michael O. Leavitt Governor Ted Stewart Executive Director James W. Carter Division Director

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 801-538-5340 801-359-3940 (Fax) 801-538-5319 (TDD)

May 5, 1995

CERTIFIED RETURN RECEIPT P 074 978 939

William Bown Utah Building Stone, Incorporated 842 West 400 North West Bountiful, Utah 84087

Re: Site inspection, Lynn Springs Quarry, S/003/025, Box Elder County, Utah

Dear Mr. Bown:

On April 25, 1995, a joint inspection between the US Forest Service, the Bureau of Land Management and the Division was conducted at your Lynn Springs Quarry in Box Elder County, Utah (inspection memo enclosed). During this inspection is was noted that surface disturbance has exceeded the five-acre disturbed area limit for a small mining operation. At this time, two options are available to remedy this situation. First, you may reclaim a portion of the disturbed area to reduce the acreage below the five-acre threshold; or secondly, submit a notice to conduct large mining operations (LMO form enclosed).

During the inspection, it was mentioned that you have approached the BLM for a millsite claim approximately 1.5 miles from the Lynn Springs Quarry. Please note that the Division would consider this millsite as a neighboring and related site and would include the acreage involved with the quarry in determining whether a large mining operation exists. In light of this, it may be to your advantage to file a notice to conduct large mining operations at this time (and amend the notice once you finalize plans for the millsite) rather than reclaim a portion of the quarry. The Division will allow you 45 days to either reclaim a portion of the quarry to reduce the area of disturbance to less than 5 acres or to submit a complete notice to conduct large mining operations.

Also noted during the inspection were empty oil and grease containers and other garbage. These items need to be cleaned up and properly disposed of. Finally, in December of 1994, you committed to install a fence around the northern end of the quarry to mitigate the boundary fence that was removed as you expanded the quarry onto BLM lands. At the time of the inspection, this had not been done. Since cattle will soon be turned into the area for spring grazing, this needs to be completed immediately.



Page 2 William Bown May 5, 1995 S/003/025

Please don't hesitate to call either myself or Lynn Kunzler of my staff if you have any questions. Please be advised that failure to meet the 45-day time limit may result in the Division taking enforcement action.

Sincerely,

D. Wayne Hedberg

Permit Supervisor

Minerals Regulatory Program

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Enclosures: MR-LMO & 4/25/95 insp memo

cc:

Gordon Struthers, USFS Dan Washington, BLM Lynn Kunzler, DOGM (route)

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FORM MR-LMO (Revised 1/92)

	FOR I	<u> SIVIS</u>	ION I	JSE ON	ILY
File #: _	M	1		1	
Date Approved:			1	1	
DOGM Lead:_					

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 Telephone: (801) 538-5340

NOTICE OF INTENTION TO COMMENCE LARGE MINING OPERATIONS

The informational requirements in this form are based on provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated 1953, General Rules and Rules of Practice and Procedures.

This form applies only to mining operations which disturb or will disturb greater than five acres at any given time.

"MINING OPERATIONS" means those activities conducted on the surface of the land for the exploration for, development of, or extraction of a mineral deposit, including, but not limited to, surface mining and the surface effects of underground and in situ mining, on-site transportation, concentrating, milling, evaporation, and other primary processing.

"Mining operation" does not include: the extraction of sand, gravel, and rock aggregate; the extraction of oil and gas as defined in Chapter 6, Title 40; the extraction of geothermal steam; smelting or refining operations; off-site operations and transportation; or reconnaissance activities which will not cause significant surface resource disturbance or involve the use of mechanized earth-moving equipment such as bulldozers or backhoes.

PLEASE NOTE:

If extra space is required to complete a section, please attach additional sheets and include cross-referenced page numbers as necessary. The operator may submit this information on an alternate form, however the same or similar format must be used.

I.	GENERAL INFORMATION (Rule R647-4-104)
i.	Mine Name:
2.	Name of Applicant or Company:
	Corporation () Partnership () Individual ()
3.	Permanent Address:
4.	Company Representative (or designated operator):
	Name:
	Title:
	Address:
	Phone:
5.	
	County(ies)
	1/4 of1/4, Section: Township: Range:
	1/4 of1/4, Section: Township: Range:
	1/4 of 1/4, Section: Township: Range:
6.	Ownership of the land surface (circle which applies): Private (Fee),
•	Public Domain (BLM), National Forest (USFS), State of Utah or other:
	Name: Address:
7.	Owner(s) of record of the minerals to be mined:
	Name: Address:
8.	Have the above owners been notified in writing? Yes No
	If no, why not?

		and covered by this notice? Yes No	-
II	•	MAPS, DRAWINGS & PHOTOGRAPHS (Rule R647-4-105)
	1.	Base Map	
	must the son series	replete and correct topographic base map (or maps) with appropriate submitted with this notice which show all of the items on the cale should be approximately 1 inch = 2,000 feet (preferably a for equivalent topographic map where available) showing the lock of in sufficient detail to permit calculation of proposed surface d	following checklist. USGS 7.5 minute ation of lands to be
	Map (Checklist	
	Please	check off each section as it is drawn on the map(s). Does the	map show:
	(a)	Property boundaries of surface ownership of all lands which are to be affected by the mining operations;	
	(b)	Perennial streams, springs and other bodies of water, roads, buildings, landing strips, electrical transmission lines, water wells, oil and gas pipelines, existing wells or boreholes, or other existing surface or subsurface facilities within 500 feet of the proposed mining operations;	
	(c)	Proposed route of access to the mining operations from nearest publicly maintained highway (Map scale appropriate to show access);	
	(d)	Known areas which have been previously impacted by mining of exploration activities within the proposed land affected;	or
	(e)	Acreages proposed to be disturbed or reclaimed each year (or other suitable time period.	
	2.	Surface Facilities Map	
	A surf 1" = 3	ace facilities map shall be provided at a scale of not less than 500'.	ι

III.

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Map	f 'ha	ヘレロ	101
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Please check	off each	section	as it i	s drawn	on the	map.	Does the	map sh	ow:

(a)	Proposed surface facilities, including but not limited to buildings, stationary mining/processing equipment, roads, utilities, power lines, proposed drainage control structures, and the location of topsoil storage areas, overburden/waste dumps, tailings or processed waste facilities, disposal areas for overburden, solid and liquid wastes, and wastewater discharge, treatment and containment facilities;
(b)	A border clearly outlining the extent of the surface disturbed area proposed to be affected by mining, and the number of acres proposed to be affected;
(c)	The location of known test borings, pits, or core holes.
3.	Additional Maps
R647	tional maps and drawings may be required as applicable in accordance with Rule 7-4-105.3. RATION PLAN (Rule R647-4-106)
1.	Mineral(s) to be mined:
2.	Acreage to be disturbed:
	Minesite (operating, storage, disposal areas, etc.): Access/haul roads/conveyors: Associated on-site processing facilities: Total:
3.	Describe methods and procedures to be employed for mining, on-site processing and concurrent reclamation.

4.	Elevation of groundwater (if known):	ft.
5.	Area from which soil material can be salvaged:	inches acres cu. yds.
6.	Thickness of overburden:	ft.
7.	Thickness of mineral deposit:	ft.
8.	Volume of refuse, tailings, and processing waste stockpiles:	cu. yds.
9.	Acreage and capacity of tailings ponds and water storage ponds to be constructed:	acres
10.	Describe how topsoil or subsoil material will be removed, st protected:	Acre-Feet ockpiled and
11.	Describe how overburden material will be removed and stoc	
12.	Describe how tailings, waste rock, rejected materials, etc. w	rill be disposed of:
13.	Potentially deleterious materials must be analyzed for toxici nature of any deleterious materials which will be used, encogenerated onsite (See Rule R647-1-004):	
	Specify analyses to be conducted on these materials.	
14.	NOTE: The Division may stipulate additional analyses. For each tailings pond, sediment pond, or other major drain	nage control
14.	structures, attach design drawings and typical cross-sections	

disci	narge if available.	
	etation - The operator is required to return the land to a usablish at least 70 percent of the premining vegetation grou	
vege	ground cover percentage figure is determined by sampling tation type(s) on the areas to be mined (see Attachment I foling methods).	
(a)	<u>Vegetation Survey</u> - The following information needs to upon the vegetation survey:	be completed ba
	Sampling method used	
	Ground Cover	Percent
	Vegetation (perennial grass, forb and shrub cover)	
	Litter	
	Rock/rock fragments	
	Bare ground	100%
	Revegetation Requirement - 70 percent	a
	of above vegetation figure)	<u> </u>
List t	he four (4) predominant perennial species of vegetation gr	owing on the are
(b)	Photographs - The operator may submit photographs (presufficient to show existing vegetation conditions. These show the general appearance and condition of the area to may be utilized for comparison upon reclamation of the should be clearly marked as to the location, orientation pictures were taken.	photographs shows be affected and site. Photograph

	17.	inforn revege Service needs	The plan shall include an order 3 Soil Survey (or similar) and map. This nation is needed to determine which soils are suitable for stockpiling for etation. This soil data may be available from the local Soil Conservation be office, or if on public lands, from the land management agency. The map to be of such scale that soil types can be accurately determined on the d (see Attachment I).
		(a)	Each soil type to be disturbed needs to be field analyzed for the following:
			Depth of soil materialinches Volume (for stockpiling)cu. yds. Texture (field determination) pH (field determination) (cross reference with item IV - 5)
		(b)	Where there are problem soil areas (as determined from the field examination) laboratory analysis may be necessary. Soil samples to be sent to the laboratory for analysis need to be about one pint in size, properly labeled, and in plastic bags. Each of the soil horizons on some sites may need to be sampled.
	18.		de a narrative description of the geology of the area and/or a geologic section:
IV.	Pleas subs	se provi urface i	CT ASSESSMENT (Rule R647-4-109) ide a general narrative description identifying potential surface and/or mpacts. Where applicable, this description should include surface and
	soil		r systems, threatened or endangered species or their critical habitats, existing es for reclamation, slope stability, erosion control, air quality, and public afety.

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]	List current land use(s) other than mining:
]	List future post-reclamation land-use(s) proposed:
	Describe each phase of reclamation of the minesite in detail under the following categories:
Ì	(a) <u>Disposal of Trash</u> Describe how buildings, foundations, trash and other waste materials will be disposed of.
- (1) P-16" 1 G-1" -
Ì	b) <u>Backfilling and Grading</u> Describe equipment and methods to be employed, amount of materials to be moved and final disposition of any stockpiled materials.
Ì	Describe equipment and methods to be employed, amount of materials to be moved and final disposition of any stockpiled materials.
Ìb — — (I u a	Describe equipment and methods to be employed, amount of materials to be moved and final disposition of any stockpiled materials.
Ìb — — (I u a a	Describe equipment and methods to be employed, amount of materials to be moved and final disposition of any stockpiled materials. (c) Soil Material Replacement in order to reestablish the required ground cover, one to two feet (depending underlying material) of suitable soil material usually has to be redistributed oureas to be reseeded. If the stockpiled soil isn't sufficient for this, soil borrow
i b (I u a a F	Describe equipment and methods to be employed, amount of materials to be moved and final disposition of any stockpiled materials. (c) Soil Material Replacement in order to reestablish the required ground cover, one to two feet (depending underlying material) of suitable soil material usually has to be redistributed oureas to be reseeded. If the stockpiled soil isn't sufficient for this, soil borrowneas will need to be located. How much soil material is planned to be put on the area to be reseeded?

(d)	d) <u>Seed Bed Preparation</u>			
Describe how the seedbed will be prepared and equipment to be used.				
(The	Division recommends ripping or discing six inch	nes deep)		
(e)	Seed Mixture - List the species to be seeded:			
	Species Name	Seeding Rate (lbs Pure Live Seed/Acre)		
species reques	Division recommends seeding 20 lbs./acre of nates of grass, forb, and browse seed and will provised) Seeding Method ribe method of planting the seed.			
broad prefer (g)	Division recommends planting the seed with a racast seeded, harrow or rake the seed 1/4 to 1/2 irred time to seed) Fertilization ribe fertilization method and rate.			
	Other Revegetation Procedures er reclamation procedures, such as mulching, irr ibe them.	igation, etc., are planned,		

VI. <u>VARIANCE</u> (Rule R647-4-112)

Plugging Requirements), or Rule R647-4-111 (Reclamation Practices) must be identified below.

Rule Number	Title/Category
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For each variance requested, attach a narrative statement describing and delineating the area proposed to be affected by the variance, justifying the need for the variance, and discussing alternate methods or measures to be utilized.

VII. **SURETY** (Rule R647-4-113)

A Reclamation surety must be provided to the Division prior to final approval of this application. In calculating this amount, the Division will consider the following major steps:

- Clean-up and removal of structures. 1)
- Backfilling, grading and contouring. 2)
- Soil material redistribution and stabilization. 3)
- Revegetation (preparation, seeding, mulching)

To assist the Division in determining a reasonable surety amount, please attach a reclamation cost estimate which addresses each of the above steps.

VIII. SIGNATURE REQUIREMENT

I hereby certify that the foregoing is true and	i correct.	
Signature of Operator/Applicant:		
Name (typed or print):		
Title/Position (if applicable):		
Date:		
ASE NOTE:		

PLE

Section 40-8-13(2) of the Mined Land Reclamation Act provides for maintenance of confidentiality concerning certain portions of this report. Please check to see that any information desired to be held confidential is so labeled and included on separate sheets or maps.

Only information relating to the location, size or nature of the deposit may be protected as confidential.

Confidential Information Enclosed: () Yes () No

Attachment I

Vegetation Cover Sampling

Vegetation cover sampling determines the amount of ground that is covered by live vegetation. It is divided into four categories which equal 100 percent. They are:

<u>Vegetation</u> - This is the live perennial vegetation. Care should be taken to avoid sampling in disturbed areas that have a large percentage of annual or weedy vegetation, such as cheatgrass and russian thistle.

Litter - This is the dead vegetation on the ground, such as leaf and stem litter.

Rock/rock fragments - This is the rock and rock fragments on the soil surface.

Bare ground - This is the bare soil which is exposed to wind and water erosion.

Cover Sampling - The following methods are acceptable:

Ocular Estimation

This method visually estimates the percentage of ground covered in a plot by the four components. Plot size is usually a meter or yard square or a circular plot 36 inches in diameter. Ten to 20 plots should be randomly sampled in each major vegetation type.

Line Intercept

Percent ground cover is obtained by stretching a tape measure (usually 100') over the ground and then recording which of the four components is under each foot mark. At least two of these transects should be randomly laid out and measured in each major vegetation type.

Soil Survey and Sampling Methods

If a SCS or land management agency soil survey is not available, the operator shall delineate all soil types that will be disturbed by mining on a map. Each soil type shall be sampled for its characteristics and inherent properties. Representative sampling locations should have similar geologic parent material, slopes, vegetative communities and aspects. The sampling locations should be representative of the soil type and be identified on the map. Sampling shall be at a minimum of one (1) for each soil type disturbed.

The soil map needs to be of sufficient scale so that each soil type can be accurately located on the ground.